

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
3 February 2005 (03.02.2005)

PCT

(10) International Publication Number
WO 2005/009351 A2

(51) International Patent Classification⁷: **A61K**

(21) International Application Number:
PCT/US2004/022330

(22) International Filing Date: 13 July 2004 (13.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/488,492 17 July 2003 (17.07.2003) US

(71) Applicant (for all designated States except US): **SANTÉ INTERNATIONAL, INC.** [US/US]; 111 West Second Street, Suite 4000, Jamestown, NY 14701 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **DJANG, Arthur**; Santé International, Inc., 111 West Second Street, Suite 400, Jamestown, NY 14701 (US).

(74) Agent: **NELSON, Bud, M.**; 8112 Greywinds Drive, Raleigh, NC 27615 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: DIETARY SUPPLEMENT FOR PROMOTING CONTROL OF BLOOD-SUGAR LEVELS AND ASSOCIATED PATHOLOGY IN TYPE 2 DIABETICS

(57) Abstract: Provided is an herbal extract-based composition comprising an extract of Gynostemma pentaphyllum, an extract of Crataegus pinnatifidia (hawthorn), an extract of Camellia sinensis (green tea), and an extract of Momordica charantia (bitter melon). The composition may further comprise an extract of mulberry (Morus species). Also provided is a process for preparing a herbal extract-based composition which comprises separately extracting each of hawthorn, green tea, Gynostemma pentaphyllum, mulberry, and bitter melon; drying extraction eluates obtained from the extracting of each of the herbal components to obtain organic residues in forming a hawthorn extract powder, green tea extract powder, a Gynostemma pentaphyllum extract powder, a mulberry extract powder, and a bitter melon powder; and combining the green tea extract powder, the Gynostemma Pentaphyllum extract powder, the hawthorn extract powder, the mulberry extract powder, and the bitter melon powder in desired proportions to form the herbal extract-based composition which, when taken orally, has health-promoting effects including anti-diabetic effects that include, but are not limited to, decreasing visceral fat, reducing hyperglycemia, and reducing the occurrence and severity of diabetic complications, associated with type 2 diabetes.

WO 2005/009351 A2